OCD-ARTESIA					ATS-07-780 EA-07-1360			
Form 3160 - 3 (April 2004)	C	ONFIDEN	TIA	OMB No	E A-0 APPROVED 0. 1004-0137 March 31, 2007	7-1360		
	UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR		5. Lease Serial No. NMNM 11496				
APPLICAT	TON FOR PERMIT TO			6. If Indian, Allote	or Tribe Name	Nor-1-2		
la. Type of work: 🔽 DRILL		7 If Unit or CA Agre	eement, Name and No.					
Ib. Type of Well:	Gas Well Other	Single Zone Mult	tiple Zone	8. Lease Name and Owl, 20504 JV	1 42	5309		
2. Name of Operator BTA Oil	Producers 260	297		9. API Well No.	5-38341	/		
3a. Address 104 S. Pecos Midland, TX 79		3b. Phone No. (include area code) (432) 682-3753	WE	10. Field and Pool, or	Exploratory Delaware)	(4030)		
	on clearly and in accordance with at "FNL & 1660' FEL SWNE	ny State requirements.*)		11. Sec., T. R. M. or E Sec. 18, T26S-				
 14. Distance in miles and direction f 14 miles southwest from N 	•			12. County or Parish Eddy	13. State			
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, i 	1//0	16. No. of acres in lease 760.24	17. Spacing 40 acr	g Unit dedicated to this	well			
 Distance from proposed location to nearest well, drilling, complet applied for, on this lease, ft. 	ation* 19. Proposed Depth 20. BLM/I npleted,			/BIA Bond No. on file 1195				
21. Elevations (Show whether DF, 3253' G/	KDB, RT, GL, etc.)	22 Approximate date work will st	tart*	23. Estimated duration 25 days	on			
	·	24. Attachments						
 The following, completed in accordant Well plat certified by a registered A Drilling Plan. A Surface Use Plan (if the loca SUPO shall be filed with the app 	surveyor. tion is on National Forest System	4. Bond to cover Item 20 above Lands, the 5. Operator certif	the operation). fication te specific info	s torm: ns unless covered by an prmation and/or plans a	-	· ·		
25. Signature	mstoon	Name (Printed/Typed) Pam Inskeep			Date 09/20/2007			
Title Regulatory Admir	istrator							
Approved by (Signature)	James Stovall	Name (Printed/Typed)	/ Jame	s Stovall	Date	5_2007		
Title FIELD MA	NAGER	Office CARLS	BAD F	IELD OFF				
Application approval does not warra conduct operations thereon. Conditions of approval, if any, are a		Is legal or equitable title to those rig	ghts in the sub		entitle the applicant to			
Title 18 U.S.C. Section 1001 and Title States any false, fictitious or fraudule	43 U.S.C. Section 1212, make it a c int statements or representations as	rime for any person knowingly and				.d		
*(Instructions on page 2)		2 <u></u>			RECEIV	ED		
					NOV 292	010		
Carlsbad Controlled	Water Basin	1 0000			MOCD ART	ESIA		
		APPRO CENED	VAL SU	BJECT TO				
E ATTACHED FOR		AND SF	PECIAL	UIREMENTS STIPULATION	VS			
NDITIONS OF APP	NAAMP							

APPLICATION FOR DRILLING

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10-66-01

BTA OIL PRODUCERS Owl, 20504 JV-P, NO. 3 2180' FNL & 1660' FEL Sec. 18, T26S, R27E Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. Geologic surface formation is Quaternary.

2. Estimated top of geologic markers & depths of anticipated fresh water, oil or gas:

Base Salt	1,800'	
Delaware	2,015'	Oil
Ramsey	2,085'	Oil
Brushy Canyon	3,970'	Oil
Bone Spring Lm	5,655'	Oil

No. other formations are expected to yield oil, gas, or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8" csg at 400 and circulating cement back to surface. Potash/fresh water sands will be protected by setting 8-5/8" csg at 1900' and circulating cement back to surface. The Delaware and Bone Spring intervals will be isolated by setting 5-1/2" csg to total depth and circulating cement above the base of the 8-5/8" casing.

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.

3. Proposed Casing and Cementing Program:

Hole	OD	Setting	Depth				Collapse	Burst	Tension
<u>Size</u>	Casing	From	to	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	Factor	Factor	Factor
17-1/2"	13-3/8"	0	400'	54.5#	J55	STC	5.92	2.76	23.27J
11"	8-5/8"	0	1,900'	24#	J55	STC	1.39	1.97	5.30J
7-7/8"	5-1/2"	0	5,900'	17#	J55	LTC	1.17	1.88	2.47J

Depending upon availability at the time that the casing is run, equivalent weights and grades may be substituted.

All casing will be new.

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Received 10-32-07

Drilling Plan Owl, 20504 JV-P, #3 Page 2

4. Cement Program:

13-3/8" casing will be cemented with 400 sx Prem Plus w/2% CaCl₂ circulated to surface. 14.8 ppg, 1.35 yield.

8-5/8" casing will be cemented with 700 sx Light Prem Plus w/2% CaCl₂, $\frac{1}{4}$ sx Flocele, 12.5 ppg, 1.98 yield. Tail with 400 sx Prem Plus w/2% CaCl₂ 14.8 ppg, 1.35 yield, circulated to surface.

5-1/2" casing will be cemented with 200 sx Interfill C w/¼#/sx Flocele, 11.9 ppg, 2.45 yield. Tail with w/800 sx Super H w/3#/sx salt, 0.5% Halad (R)-344, 5 #/sx Gulsonite, 0.4% CFR-3, 13.2 ppg, 1.64 yield, to cement back above 8-5/8" shoe.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drillout.

5. Pressure Control Equipment:

The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and $4-\frac{1}{2}$ " drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2. Blind rams will be tested upon installation. and equipment the tested upon installation.

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 3000 psi WP rating.

6. Mud Program:

Surface to 400': 8.6-9.2 ppg fresh water spud with 35 to 45 sec/1000 cc viscosity.

<u>400' to 1,900'</u>: Brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with gel slugs as required for hole cleaning. Mud wt = 10 ppg.

<u>1,900' to TD:</u> 8.6 to 9.2 ppg controlled brine water. Will use lime for pH control in range 10 to 11. Will sweep hole with salt gel slugs as required for hole cleaning. Will use paper for seepage losses. Will adjust fluid weight as required using brine water.

Drilling Plan Owl, 20504 JV-P, #3 Page 3

- 7. Auxiliary Equipment:
 - a) Upper Kelly cock valve with handle available.
 - b) Lower Kelly cock valve with handle available.
 - c) Safety valves and subs to fit all drill string connections in use.
 - d) Monitoring of mud system will be mechanical.
 - e) H₂S detection equipment will be in operation after drilling out the 8-5/8" csg shoe until the 5-1/2" csg is cemented. Breathing equipment will be on location upon drilling the 9-5/8" shoe until TD is reached.
- 8. Testing Logging and Coring Program:

Drill Stem Tests will be based on geological sample shows.

Open electrical logging program will be:

- i. TD to Intermediate Csg: Gamma Ray/Compensated Neutron
- ii. TD to Surface: Dual Laterolog, Gamma Ray, Compensated Neutron, Density, Sonic.
- iii. No coring program is planned.
- iv. Additional testing will be initiated subsequent to setting the 5-1/2" production csg. Specific intervals will be targeted based on log evaluation, geological sample shows, and drill stem tests.
- 9. Potential Hazards:

No abnormal pressures or temperatures are anticipated. If H2S is encountered, the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 2550 psi. Estimated BHT: 110° F. No H₂S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig is available. Move in operations and drilling is expected to take 20 days. If production casing is run, an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flowlines to place the well on production.

BTA OIL PRODUCERS - PROPOSED LOCATION

BTA OIL PRODUCERS #3, OWL, 20504 JV-P Sec. 18, T26S, R27E Eddy County, New Mexico

PROPOSED LOCATION SIZE RIG TBD

Entrance roads to be located as per BLM inspector recommendation



BTA OIL PRODUCERS



BTA Oil Producers #3, Owl, 20504 JV-P 2180' FNL & 1660' FEL Sec. 18, T26S, R27E Eddy County, New Mexico

Exhibit -A- 1



3M CHOKE MANIFOLD EQUIPMENT -- CONFIGURATION MAY VARY

BTA Oil Producers #3, Owl, 20504 JV-P 2180' FNL & 1660' FEL Sec. 18, T26S, R27E Eddy County, New Mexico